OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
TIGERCAT 620E 6206992
Component
Diesel Engine
Fluid
BAY 15W40 (5 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

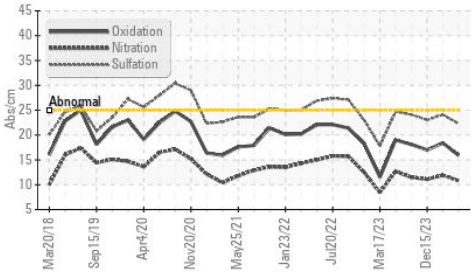
There is no indication of any contamination in the oil.

FLUID CONDITION

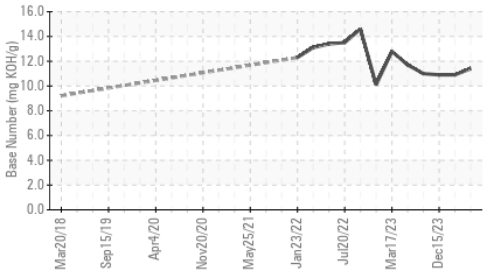
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0669493**	WC0669499	WC0669520
Sample Date		Client Info		**19 Mar 2024**	16 Feb 2024	15 Dec 2023
Machine Age	hrs	Client Info		**10500**	10349	10137
Oil Age	hrs	Client Info		**151**	212	207
Filter Age	hrs	Client Info		**151**	212	207
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>90	**13**	16	16
Chromium	ppm	ASTM D5185m	>20	**0**	<1	<1
Nickel	ppm	ASTM D5185m	>2	**0**	0	<1
Titanium	ppm	ASTM D5185m	>2	**0**	<1	<1
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**3**	3	3
Lead	ppm	ASTM D5185m	>40	**<1**	<1	0
Copper	ppm	ASTM D5185m	>330	**1**	1	1
Tin	ppm	ASTM D5185m	>15	**<1**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	**9**	11	11
Potassium	ppm	ASTM D5185m	>20	**2**	0	0
Fuel		WC Method	>3.0	**<1.0**	<1.0	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	*ASTM D7844	>6	**0.2**	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	**10.8**	11.9	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	**22.3**	24.1	23.0
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185m		**4**	4	4
Boron	ppm	ASTM D5185m		**44**	42	34
Barium	ppm	ASTM D5185m		**0**	<1	<1
Molybdenum	ppm	ASTM D5185m		**100**	104	104
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**237**	227	234
Calcium	ppm	ASTM D5185m		**3572**	3624	3817
Phosphorus	ppm	ASTM D5185m		**1177**	1151	1270
Zinc	ppm	ASTM D5185m		**1255**	1235	1365
Sulfur	ppm	ASTM D5185m		**9058**	7595	8239
Oxidation	Abs/.1mm	*ASTM D7414	>25	**15.9**	18.4	17.0
Base Number (BN)	mg KOH/g	ASTM D2896		**11.4**	10.9	10.9
Visc @ 100°C	cSt	ASTM D445		**15.2**	16.0	15.8

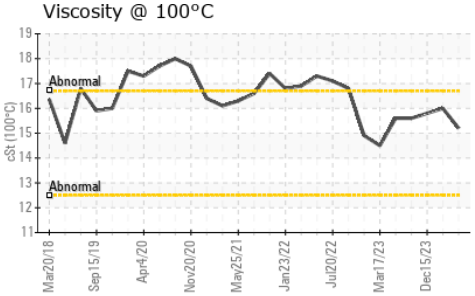
FT-IR (Direct Trend)



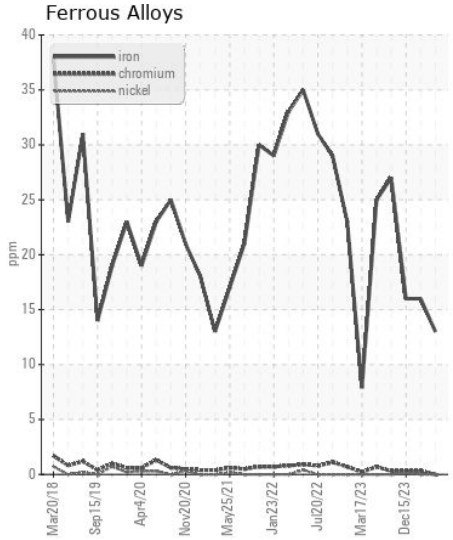
Base Number



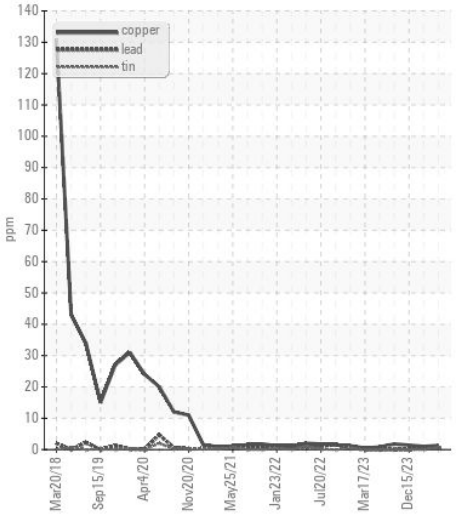
Viscosity @ 100°C



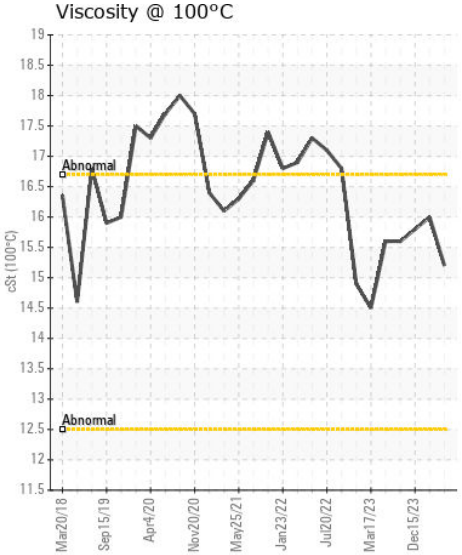
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



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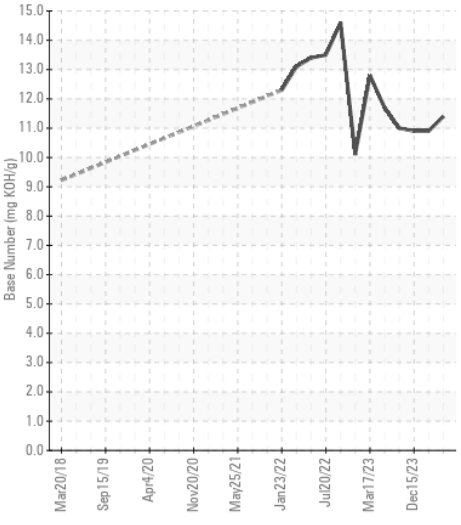

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0669493
Lab Number : 06153743
Unique Number : 10983821
Test Package : FLEET

Received : 18 Apr 2024
Tested : 19 Apr 2024
Diagnosed : 19 Apr 2024 - Wes Davis

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

TWIN STATE FORESTRY
PO BOX 269
ASCUTNEY, VT
US 05030
Contact: STEVE GALBREATH
forestry@comcast.net
T: (802)291-0627
F: (802)291-0627